

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Munekazu DATE, et al.
Appl No.: To Be Assigned
Filed: Concurrently Herewith
For: OPTICAL DEVICE AND DISPLAY APPARATUS

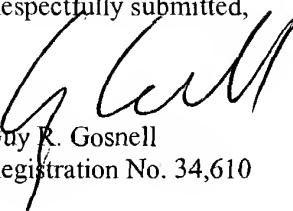
Mail Stop Patent Application
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT
CITATION UNDER 37 C.F.R. § 1.97**

Attached is a list of documents on form PTO-1449. It is requested that the Examiner consider these documents and officially make them of record in accordance with the provisions of 37 C.F.R. § 1.97 and Section 609 of the MPEP. By submitting the listed documents, Applicant in no way makes any admission as to the prior art status of the listed documents, but is instead submitting the listed documents for the sake of full disclosure.

No items are attached since they were supplied in, or cited by the Office, during prosecution of parent Application No. 09/361,856 filed July 27, 1999. Since the benefit of this application was claimed under 35 U.S.C. 120, no copies need to be furnished in accordance with 37 C.F.R. 1.98(d); however, copies will be furnished on request.

Respectfully submitted,

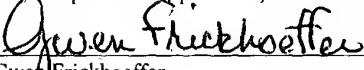


Guy R. Gosnell
Registration No. 34,610

Customer No. 00826
ALSTON & BIRD LLP
Bank of America Plaza
101 South Tryon Street, Suite 4000
Charlotte, NC 28280-4000
Tel Charlotte Office (704) 444-1000
Fax Charlotte Office (704) 444-1111

"Express Mail" mailing label number EV 034185140 US
Date of Deposit July 8, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to:
Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Gwen Frickhoeffer

| | | | | | |
|---|---|----|---|--------------------------|-----------------------|
| Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
| Sheet | 1 | of | 4 | Application Number | To Be Assigned |
| | | | | Filing Date | Concurrently Herewith |
| | | | | First Named Inventor | Munekazu DATE, et al. |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| | | | | Attorney Docket Number | 041309/262109 |

| U. S. PATENT DOCUMENTS | | | | | |
|-------------------------------|----------|--|--------------------------------|--|---|
| Examiner Initials* | Cite No. | Document Number Number - Kind Code (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear |
| | 1 | US-4,090,219 | 05-16-1978 | Ernstoff et al. | |
| | 2 | US-4,591,233 | 05-27-1986 | Fergason | |
| | 3 | US-4,606,611 | 08-19-1986 | Fergason | |
| | 4 | US-4,626,074 | 12-2-1986 | Crossland et al. | |
| | 5 | US-4,810,063 | 03-07-1989 | Fergason | |
| | 6 | US-4,844,596 | 07-04-1989 | Fergason | |
| | 7 | US-5,299,289 | 03-29-1994 | Omae et al. | |
| | 8 | US-5,452,385 | 09-19-1995 | Izumi et al. | |
| | 9 | US-5,477,351 | 12-1995 | Takahara et al. | |
| | 10 | US-5,581,380 | 12-03-1996 | Bergman | |
| | 11 | US-5,648,860 | 07-1997 | Ooi et al. | |
| | 12 | US-5,706,066 | 01-06-1998 | Sawayama et al. | |
| | 13 | US-5,760,860 | 06-1998 | Mason et al. | |
| | 14 | US-6,048,071 | 04-2000 | Sawayama | |
| | 15 | US-6,133,971 | 10-2000 | Silverstein et al. | |
| | 16 | US-6,249,328 | 06-2001 | Fukuzawa et al. | |
| | 17 | US-6,339,463 | 01-2002 | Silverstein et al. | |
| | 18 | US-6,373,540 | 04-2002 | Munakata | |

| FOREIGN PATENT DOCUMENTS | | | | | | |
|---------------------------------|----------|--|--|---|--------------------------------|--|
| Examiner Initials | Cite No. | Foreign Patent Document Country Code - Number Kind Code (if known) | | Name of Patentee or Applicant of Cited Document | Publication Date MM-DD-YYYY | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| | 1 | JP 54-28597 | | Nippon Denshin Denwa Kosha | 03-03-1979 | |
| | 2 | JP 59-178428 | | Fargason | 09-10-1984 | A |
| | 4 | JP 63-4515 | | | 01-13-1988 | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | |
|---|---|----|---|------------------------|-----------------------|
| Substitute for form 1449/PTO (Revised 04/2003) | | | | Complete if Known | |
| | | | | Application Number | To Be Assigned |
| | | | | Filing Date | Concurrently Herewith |
| | | | | First Named Inventor | Munekazu DATE, et al. |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| Sheet | 2 | of | 4 | Attorney Docket Number | 041309/262109 |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|--------------------------|----|----|----------|---|------------------------------------|------------|---|
| | 5 | JP | 01033520 | A | Canon Inc. | 02-03-1989 | |
| | 6 | JP | 02101424 | A | Sony Corp. | 04-13-1990 | |
| | 7 | JP | 3-23423 | | | 01-31-1991 | |
| | 8 | JP | 03073926 | A | Asahi Glass Co. Ltd. | 03-28-1991 | |
| | 9 | JP | 4-97129 | A | Hitachi Lighting Ltd. | 03-30-1992 | |
| | 10 | JP | 04338721 | A | Seiko Epson Corp. | 11-26-1992 | |
| | 11 | JP | 4-352129 | A | Sony Corp. | 12-07-1992 | |
| | 12 | JP | 04355424 | A | Asahi Glass Co. Ltd. | 12-09-1992 | |
| | 13 | JP | 05080310 | A | Dainippon Printing Co. Ltd. | 04-02-1993 | |
| | 14 | JP | 5-5882 | A | Katsumi Yoshino | 01-14-1993 | |
| | 16 | JP | 05072509 | A | NEC Corp. | 03-26-1993 | |
| | 17 | JP | 05119302 | A | Seiko Epson Corp. | 05-18-1993 | |
| | 18 | JP | 05173119 | A | Seiko Epson Corp. | 07-13-1993 | |
| | 15 | JP | 5-281521 | A | Canon Inc. | 10-29-1993 | A |
| | 19 | JP | 06075218 | A | Stanley Electric Co. Ltd. | 03-18-1994 | |
| | 20 | JP | 06214254 | A | Matsushita Electric Ind. Co. Ltd | 08-05-1994 | |
| | 21 | JP | 06222360 | A | Seiko Epson Corp. | 08-12-1994 | |
| | 22 | JP | 06250153 | A | Nippon Telegraph & Telephone Corp. | 09-09-1994 | |
| | 23 | JP | 6-258640 | | | 09-16-1994 | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | |
|---|---|----|---|--------------------------|-----------------------|
| Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Complete if Known | |
| | | | | Application Number | To Be Assigned |
| | | | | Filing Date | Concurrently Herewith |
| | | | | First Named Inventor | Munekazu DATE, et al. |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| Sheet | 3 | of | 4 | Attorney Docket Number | 041309/262109 |

| FOREIGN PATENT DOCUMENTS | | | | | | | |
|---------------------------------|----|-----------|----|------------------------------------|------------|--|---|
| 24 | JP | 06289422 | A | Seiko Instr. Inc. | 10-18-1994 | | |
| 25 | JP | 06308471 | A | Nippon Telegraph & Telephone Corp. | 11-04-1994 | | |
| 26 | JP | 6-308543 | | | 11-04-1994 | | A |
| 27 | JP | 6-347790 | | | 12-22-1994 | | A |
| 28 | JP | 07056157 | A | Teijin Ltd. | 03-03-1995 | | A |
| 29 | JP | 07104322 | A | Fuji Xerox Co. Ltd. | 04-21-1995 | | A |
| 30 | JP | 07306402 | A | Toshiba Corp. | 11-21-1995 | | |
| 31 | JP | 09068700 | A | Dainippon Ink & Chem. Inc. | 03-11-1997 | | |
| 3 | JP | 62-81688 | | | 04-15-1997 | | |
| 32 | JP | 10062798 | A | Fujitsu Ltd. | 03-06-1998 | | |
| 33 | JP | 10078569 | A | Nippon Telegraph & Telephone Corp. | 03-24-1998 | | |
| 34 | JP | 10090708 | A | Toshiba Corp. | 04-10-1998 | | |
| 35 | JP | 10090730 | A | Nippon Telegraph & Telephone Corp. | 04-10-1998 | | |
| 36 | JP | 10186361 | A | Sharp Corp. | 07-14-1998 | | |
| 37 | EP | 0 363 084 | A2 | Dorschner, et al. | 04-11-1990 | | |
| 38 | EP | 0 643 318 | A1 | Kobayashi, et al. | 03-15-1995 | | |
| 39 | EP | 0 675 386 | A1 | Mahe, et al. | 10-04-1995 | | |
| 40 | EP | 0 729 055 | A2 | Taketomi, et al. | 08-28-1996 | | |
| 41 | EP | 0 823 587 | A1 | Taniguchi, et al. | 02-11-1998 | | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

| | | | | | |
|--|---|----|---|------------------------|-----------------------|
| Substitute for form 1449/PTO (Revised 04/2003) | | | | Complete if Known | |
| INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(Use as many sheets as necessary)</i> | | | | Application Number | To Be Assigned |
| | | | | Filing Date | Concurrently Herewith |
| | | | | First Named Inventor | Munekazu DATE, et al. |
| | | | | Group Art Unit | |
| | | | | Examiner Name | |
| Sheet | 4 | of | 4 | Attorney Docket Number | 041309/262109 |

| OTHER DOCUMENTS | | | | |
|-------------------|----------|---|--|---------------------------------------|
| Examiner Initials | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | English Language Translation Attached |
| | | World Intellectual Property Organization, Int'l Application No. PCT/US89/01446, Int'l Publication No. WO 89/09807, Int'l Publication Date October 19, 1989 | | |
| | | RUMIKO YAMAGUCHI, YUTAKA WAKI and SUSUMU SATO; Reverse Mode and Wide Viewing Angle Properties in Polymer Dispersed Liquid Crystal Cells Prepared Using a UV Curable Liquid Crystal; Jpn. J. Appl. Phys.; May 1997; Pages 2771-2774; Volume 36 (1997) | | |
| | | European Search Report, EP 99 30 5990, Completed February 1, 2001 | | |
| | | | | |
| | | | | |

| | | | |
|--------------------|--|-----------------|--|
| Examiner Signature | | Date Considered | |
|--------------------|--|-----------------|--|

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.